

2006 ATC Planning Base Case Assumptions

Assumptions for Calculation of TBL Planning Base Case for ATC

The following is a list of assumptions that planning used to develop the base case for calculating ATC on BPA's internal paths. Base cases are from BPA budget cases developed during calendar year 2004 representing a 2006 system. The assumptions were applied to four (4) seasonal studies as follows. The month in parentheses is the worst case month from an overall system standpoint for each season that is used to plan the transmission system.

- winter (January 06) - The winter season is defined as November through February,
- spring (May 06) - spring is defined as March through May,
- early summer (June 06) - early summer is the month of June,
- late summer/fall (August 06) - late summer/fall is defined as July through October

These seasons were defined based upon the load and generation patterns observed during those times of the year.

The assumptions are broken down into four (4) categories: Load, Infrastructure Projects, Generation and Interties

Loads		
DSI		MW
Intalco		470
Longview		0
Vanalco		0
Troutdale		0
Harvalum/Harvey		0/0
Bell		0
Conkelly		0
Federal/Non-Federal	1 in 2 probability forecast	n/a

Infrastructure Projects	
Project	kV
Kangley-Echo Lake line.	500
Schultz series capacitors.	500
Coulee - Bell line	500
Bell and Dworshak series capacitors	500
Schultz - Wautoma line	500

Interties							
Location	Winter	Spring	Early Summer	Late Summer	Notes		
Northern Intertie	531 -1290 0	531	506	531	N-S BPA 381 +PSE 150. June BPA 356. S-N DSB return.		
Montana to Northwest					Eastside Connection (Nelway phase shifter)		
Broad Garr 500		1516	1507	1541	Given flow in Base Case		
Path		1218	1196	1215	Given flow in Base Case		
Idaho to Northwest					Given flow in Base Case		
Midpoint-SL 500		299	276	32	Given flow in Base Case		
Path		-9	-8	-449	Given flow in Base Case		
COI		4716	4544	3813	Slack in base case given other NW assumptions		
PDCI		2704	2704	2208	Slack in base case given other NW assumptions		

Key for intertie assumptions:

1. Positive flow either North to South or East to West.

Generation														
Project		Obligation				Capability				Historical				Notes
		Winter	Spring	Summer Early	Summer Late	Winter	Spring	Summer Early	Summer Late	Winter	Spring	Summer Early	Summer Late	
Federal Hydro Projects		mod 90%	mod 90%	mod 90%	mod 90%									852MW (BPA) + 280MW (PSE) + 30MW for station service No Firm transmission service
Centralia		1162	1162	1162	1162									
Big Hanaford		0	0	0	0									
Chehalis						520	520	520	520					
Boardman		572					540	540	540					
Coyote 1 & 2		397	397	397	397									
Frederickson		270					250	250	250					
Hermiston Generating Project		490	490	490	490									
Hermiston Power Partners		536	536	536	536									
Klamath						485	485	485	485					
Goldendale Energy Project		250	250	250	250									
Stataline Wind		300	300	300	300									
Lancaster		150	150	150	150									
Puget										1255	1202	1220	1365	
SCL										400	380	380	380	
SPUD										115	115	115	115	
										780	760	760	760	
										1040	1060	1060	1060	
										460	440	440	440	
										870	840	840	840	
										860	690	690	690	
										850			650	
										170	120	140	60	
										340	340	340	250	

Key for generation assumptions:

1. Numbers are in Megawatts (MW)
2. Assumed Obligation - the total contracted demand
3. Maximum Capability - maximum transmission amount
4. Historical - numbers based on historical levels
5. Allocations based on both H/K and Modified 90% methodologies for federal NT.
6. Methodology used for generation assumptions: a) for thermal projects if obligation < capability use obligation, otherwise use capability. b) for hydro projects if obligation < historical use obligation, otherwise use historical.